What is Claimed is:

- 1. A composition comprising an isolated and purified antigenically-active blood group antigen protein or peptide.
- 2. The composition of claim 1, wherein said antigen is a mammalian antigen.
- 3. The composition of claim 2, wherein said mammalian antigen is an Rh antigen.
- 4. The composition of claim 3, wherein said mammalian Rh antigen is a human or a rabbit homolog of a human Rh antigen.
- 5. The composition of claim 4, wherein said Rh antigen is a D antigen, a c antigen, a C antigen, an e antigen, an E antigen, an A antigen, a B antigen, or an F antigen.
- 6. The composition of claim 1, wherein said protein or peptide is antigenically-active under conditions of low pH.
- 7. The composition of claim 6, wherein said pH is from about pH 6 to about pH 1.
- 8. The composition of claim 7, wherein said pH is from about pH 2.4 to about pH 4.5.

- 9. The composition of claim 1, wherein said protein or peptide is antigenically-active for a period of at least 4 hours.
- 10. The composition of claim 1, further comprising an amphoteric or zwitterionic buffer.
- 11. The composition of claim 10, wherein said buffer is EDTA, WRA, MOPS, HEPES, glycine, alanine, Bis-Propane or Bis-Tris.
- 12. The composition of claim 11, wherein said buffer is WRA.
- 13. The composition of claim 9, wherein said buffer is present at a concentration of from about 0.01% to about 5%.
- 14. The composition of claim 1, wherein said protein or peptide is immobilized.
- The composition of claim 14, wherein said protein or peptide is immobilized onto a glass, plastic, acrylate, methylmethacrylate, Sepharose, agarose, nylon, fiber, or glass wool substrate.

- 16. The composition of claim 14, wherein said protein or peptide is immobilized onto a petri dish, a test tube, a vial, a microscope slide, an ELISA plate, a microtiter dish, or a culture plate.
- 17. The composition of claim 14, further comprising an immunoaffinity column or matrix.
- 18. The composition of claim 14, wherein said protein or peptide is immobilized under conditions of low pH.
- 19. The composition of claim 18, wherein said pH is from about pH 6 to about pH 1.
- 20. The composition of claim 19, wherein said pH is from about pH 2.4 to about pH 4.5.
- 21. The composition of claim 14, wherein said protein or peptide is immobilized in the presence of an amphoteric or zwitterionic buffer.
- 22. The composition of claim 21, wherein said buffer is EDTA, WRA, MOPS, HEPES, glycine, alanine, Bis-Propane or Bis-Tris.
- 23. The composition of claim 22, wherein said buffer is WRA.

- 24. The composition of claim 21, wherein said buffer is present at a concentration of from about 0.01% to about 5%.
- 25. The composition of claim 24, wherein said buffer is present at a concentration of from about 1% to about 4%.
- 26. A method of detecting in a sample an antibody specific for a blood group antigen, said method comprising:
 - (a) contacting said sample with a protein or peptide in accordance with claim 1, under conditions effective to allow the formation of an immune complex; and
 - (b) detecting the immune complex so formed.
- 27. The method of claim 26, wherein said antibody is an anti-Rh antibody.
- 28. The method of claim 27, wherein said antibody is a human or rabbit antibody.
- 29. The method of claim 28, wherein said antibody is an anti-D antibody, an anti-c antibody, an anti-C antibody, an anti-E antibody, an anti-A antibody, and anti-B antibody, or an anti-F antibody.

- 30. The method of claim 26, wherein said sample is a blood, serum, plasma, cerebrospinal fluid, lymph, synovial fluid, tissue sample, or culture supernatant.
- 31. The method of claim 26, wherein said protein or peptide is linked to a detectable label.
- 32. The antibody of claim 31, wherein said protein or peptide is linked to a radioactive label, a fluorogenic label, a nuclear magnetic spin resonance label, biotin or an enzyme that generates a colored product upon contact with a chromogenic substrate.
- 33. An immunodetection kit comprising, in suitable container means, a protein or peptide according to claim 1, and an immunodetection reagent.
- 34. The immunodetection kit of claim 33, wherein the immunodetection reagent is a detectable label that is linked to said protein or peptide.
- 35. The immunodetection kit of claim 34, wherein the immunodetection reagent is a detectable label that is linked to a second antibody that has binding affinity for said protein or peptide.
- 36. The immunodetection kit of claim 35, wherein the immunodetection reagent is a detectable label that is linked to an antibody that has binding affinity for a human or rabbit blood group antigen protein or peptide.

- 37. The immunodetection kit of claim 36, wherein the immunodetection reagent is a detectable label that is linked to a second antibody that has binding affinity for a human Rh blood group antigen protein or peptide.
- 38. The immunodetection kit of claim 36, wherein said blood group antigen is a D antigen, a c antigen, a C antigen, an e antigen, an E antigen, an A antigen, a B antigen, or an F antigen.
- 39. A method of stabilizing an antigenically-active blood group antigen protein or peptide, comprising admixing said antigenically-active blood group antigen protein or peptide with an effective amount of a low pH buffer.
- 40. The method of claim 39, wherein said protein or peptide is a mammalian antigen.
- 41. The method of claim 40, wherein said mammalian antigen is an Rh antigen.
- 42. The method of claim 41, wherein said Rh antigen is a human Rh antigen or a rabbit homolog of a human Rh antigen.
- 43. The method of claim 42, wherein said antigen is a D antigen, a c antigen, a C antigen, an e antigen, an E antigen, an A antigen, a B antigen, or an F antigen.

- The method of claim 39, further comprising immobilizing said protein or peptide to a support.
- The method of claim 44, wherein said substrate is a glass, plastic, acrylate, methylmethacrylate, Sepharose, agarose, nylon, fiber, or glass wool support.
- 46. The method of claim 39, wherein said pH is from about pH 6 to about pH 1.
- 47. The method of claim 46, wherein said pH is from about pH 2.4 to about pH 4.5.
- 48. The method of claim 39, wherein said protein or peptide is antigenically-active in the presence of an amphoteric or zwitterionic buffer.
- 49. The method of claim 48, wherein said buffer is EDTA, WRA, MOPS, HEPES, glycine, alanine, Bis-Propane or Bis-Tris.
- 50. The method of claim 49, wherein said buffer is present at a concentration of from about 0.01% to about 5%.
- 51. The method of claim 50, wherein said buffer is present at a concentration of from about 1% to about 4%.

- 52. An apparatus comprising a chamber having an inlet port and an outlet port, said chamber containing an immobilized antigenically-active blood group antigen.
- 53. The apparatus of claim 52, wherein said chamber is cylindrical.
- 54. The apparatus of claim 52, wherein said protein or peptide is a mammalian antigen.
- 55. The apparatus of claim 54, wherein said mammalian antigen is an Rh antigen.
- 56. The apparatus of claim 55, wherein said Rh antigen is a human Rh antigen or a rabbit homolog of a human Rh antigen.
- 57. The apparatus of claim 56, wherein said antigen is a D antigen, a c antigen, a C antigen, an e antigen, an E antigen, an A antigen, a B antigen, or an F antigen.
- 58. The apparatus of claim 52, further comprising a pump.
- 59. The apparatus of claim 52, wherein said protein or peptide is immobilized onto a glass, plastic, acrylate, methylmethacrylate, Sepharose, agarose, nylon, fiber, or glass wool support.

- 60. The apparatus of claim 52, wherein said protein or peptide is immobilized under conditions of low pH.
- The apparatus of claim 60, wherein said pH is from about pH 6 to about pH 1.
- 62. The apparatus of claim 61, wherein said pH is from about pH 2.4 to about pH 4.5.
- 63. The apparatus of claim 52, wherein said antigen is immobilized in the presence of an amphoteric or zwitterionic buffer.
- 64. The apparatus of claim 63, wherein said buffer is EDTA, WRA, MOPS, HEPES, glycine, alanine, Bis-Propane or Bis-Tris.
- 65. The apparatus of claim 63, wherein said buffer is present at a concentration of from about 0.01% to about 5%.
- 66. The apparatus of claim 65, wherein said buffer is present at a concentration of from about 1% to about 4%.
- 67. A device comprising an antigenically-active blood group antigen protein or peptide.

- 68. The device of claim 67, wherein said protein or peptide is immobilized.
- 69. The device of claim 68, wherein said protein or peptide is immobilized under conditions of low pH.
- 70. The device of claim 69, wherein said pH is of from about pH 6 to about 1.
- 71. The device of claim 70, wherein said pH is from about pH 2.4 to about pH 4.5.
- 72. The device of claim 67, wherein said protein or peptide is a mammalian antigen.
- 73. The device of claim 72, wherein said mammalian antigen is a D antigen, a c antigen, a C antigen, an e antigen, an E antigen, an A antigen, a B antigen, or an F antigen.
- 74. The device of claim 67, further comprising a glass, plastic, acrylate, methylmethacrylate, Sepharose, agarose, nylon, fiber, or glass wool support.
- 75. An antigenically-active blood group antigen prepared by the method of claim 39.
- 76. A method of purifying an Rh antibody comprising:

- (a) contacting a sample suspected of containing said antibody with an immobilized antigen under conditions effective to bind said antibody; and
- (b) subsequently eluting said antibody from said immobilized antigen.
- 77. A method of removing an Rh antibody from a biological fluid comprising contacting said fluid with an immobilized Rh antigen under conditions effective to bind said antibody to said antigen.